

Improved method for producing impact-resistant polystyrene

Abstract

- 5 Process for preparation of impact-resistant polystyrene from diene monomers and from
styrene monomers via anionic polymerization, where
- 1) in a stage 1) a rubber solution is prepared from the diene monomers, or from the
diene monomers and from the styrene monomers, using an alkali metal organyl
10 compound as initiator and with concomitant use of a solvent, and then
- 2) in a stage 2), styrene monomer is added to the rubber solution, and the resultant
mixture is polymerized anionically to give the impact-resistant polystyrene,
- 15 and where, after stage 1) and prior to stage 2), an organylaluminum compound
and an alkali metal hydride are added to the rubber solution.